

# Safety Plate

Figure 1

## Roof Contact Areas

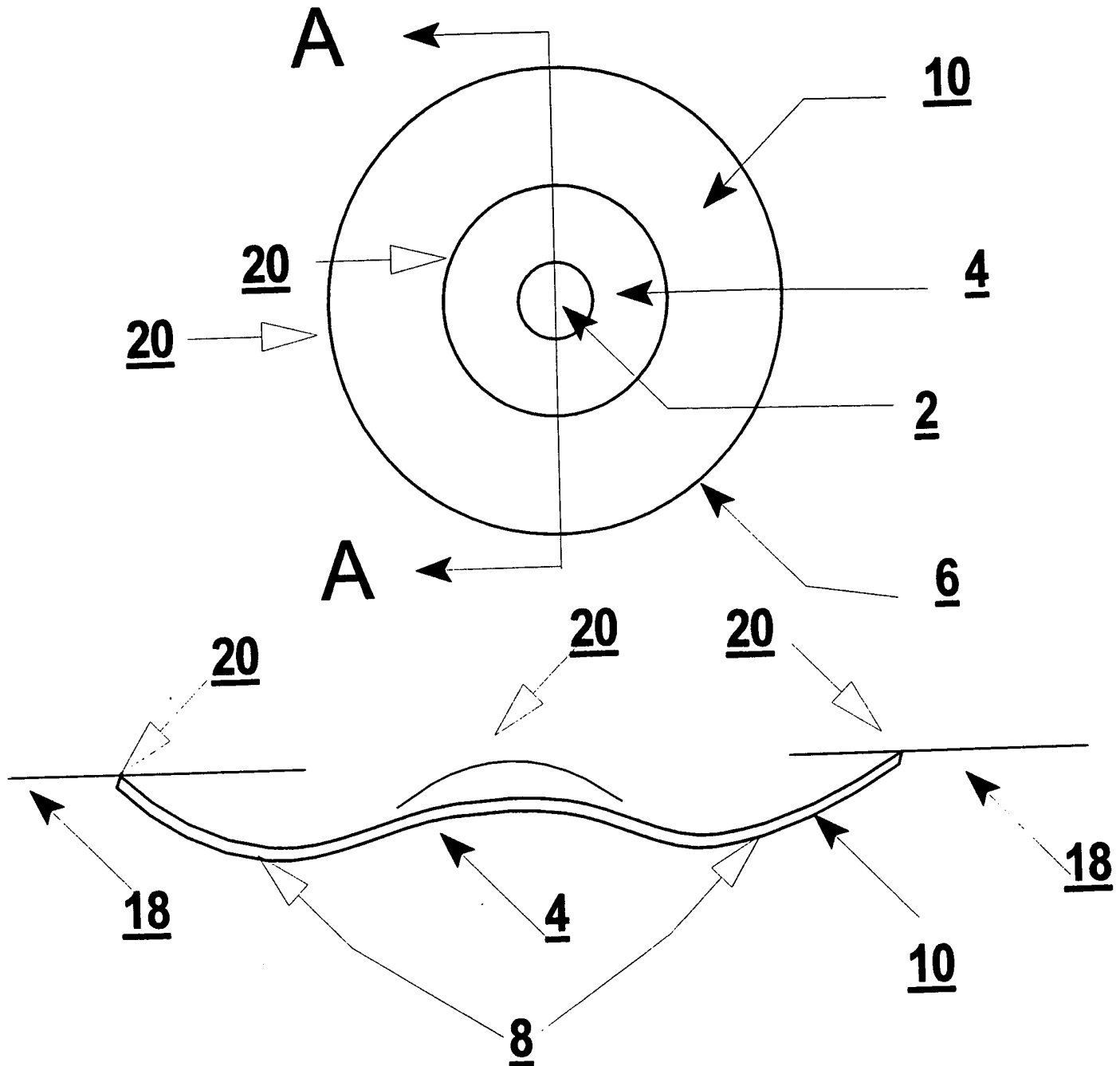
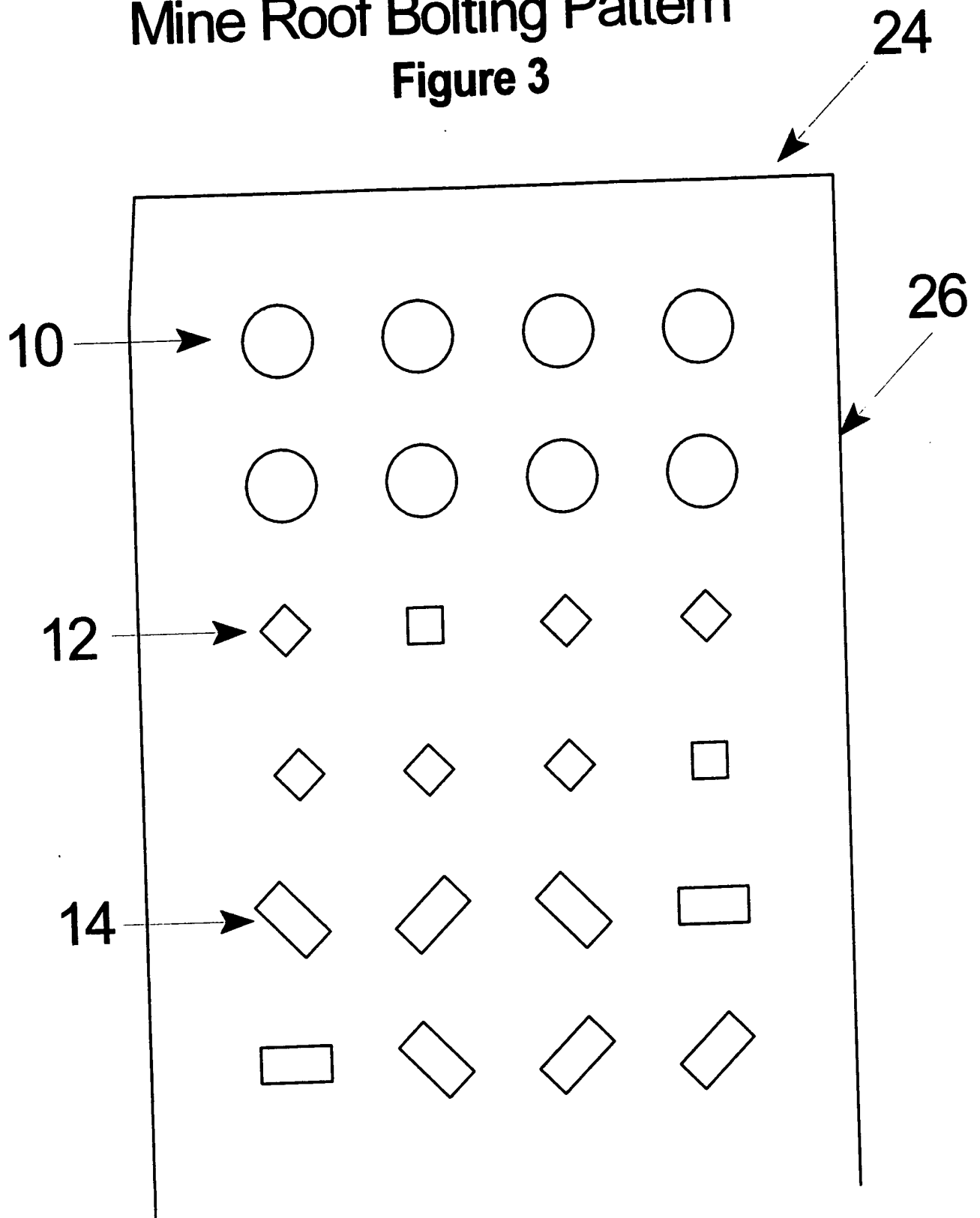


Figure 2

## Section A-A

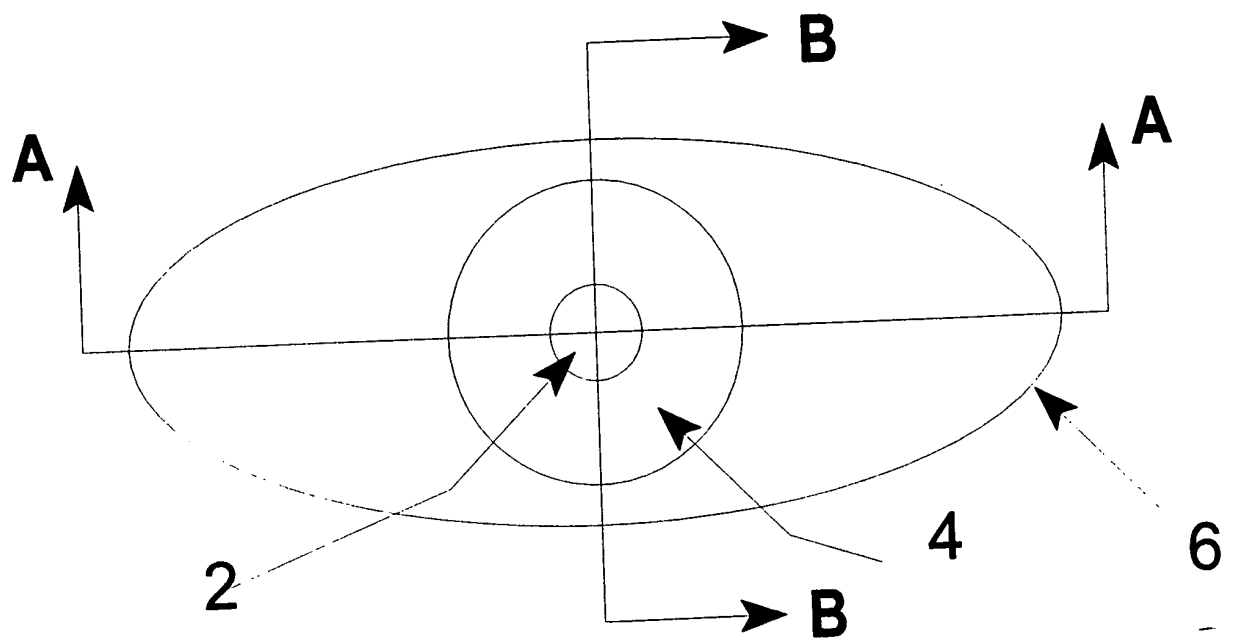
# Mine Roof Bolting Pattern

## Figure 3

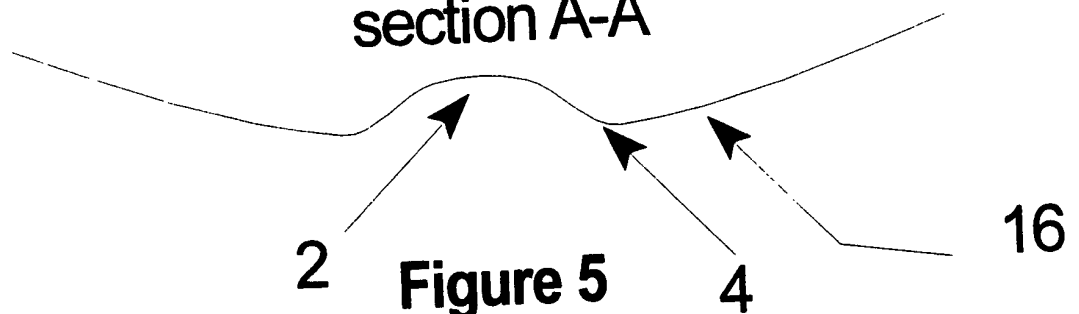


# Elliptical or Oval Shaped Plate

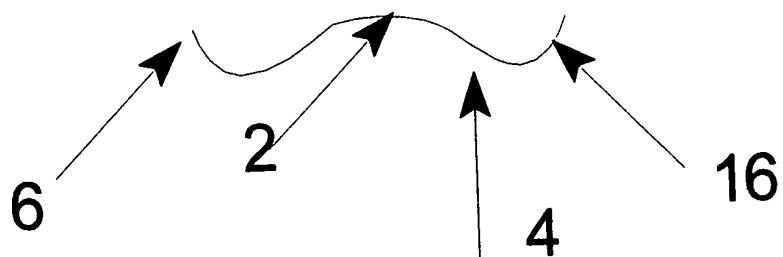
Figure 4



section A-A



section B-B



# Comparison of Roof Bolt Plates Installed Flat verses dome Figure 6

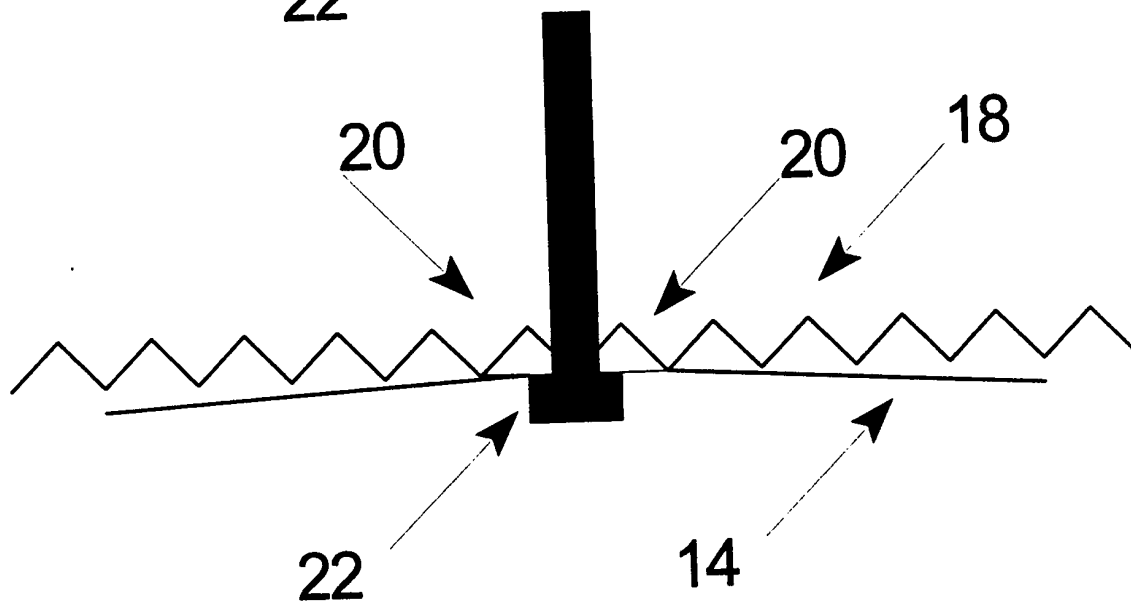
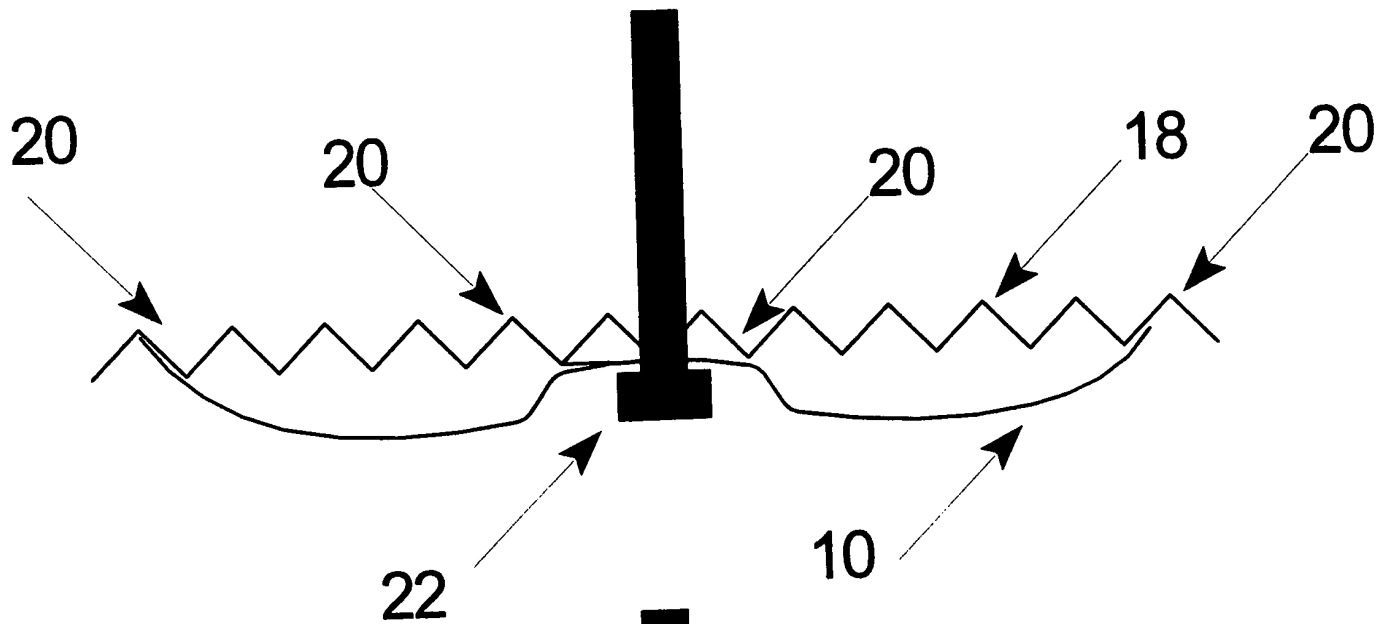
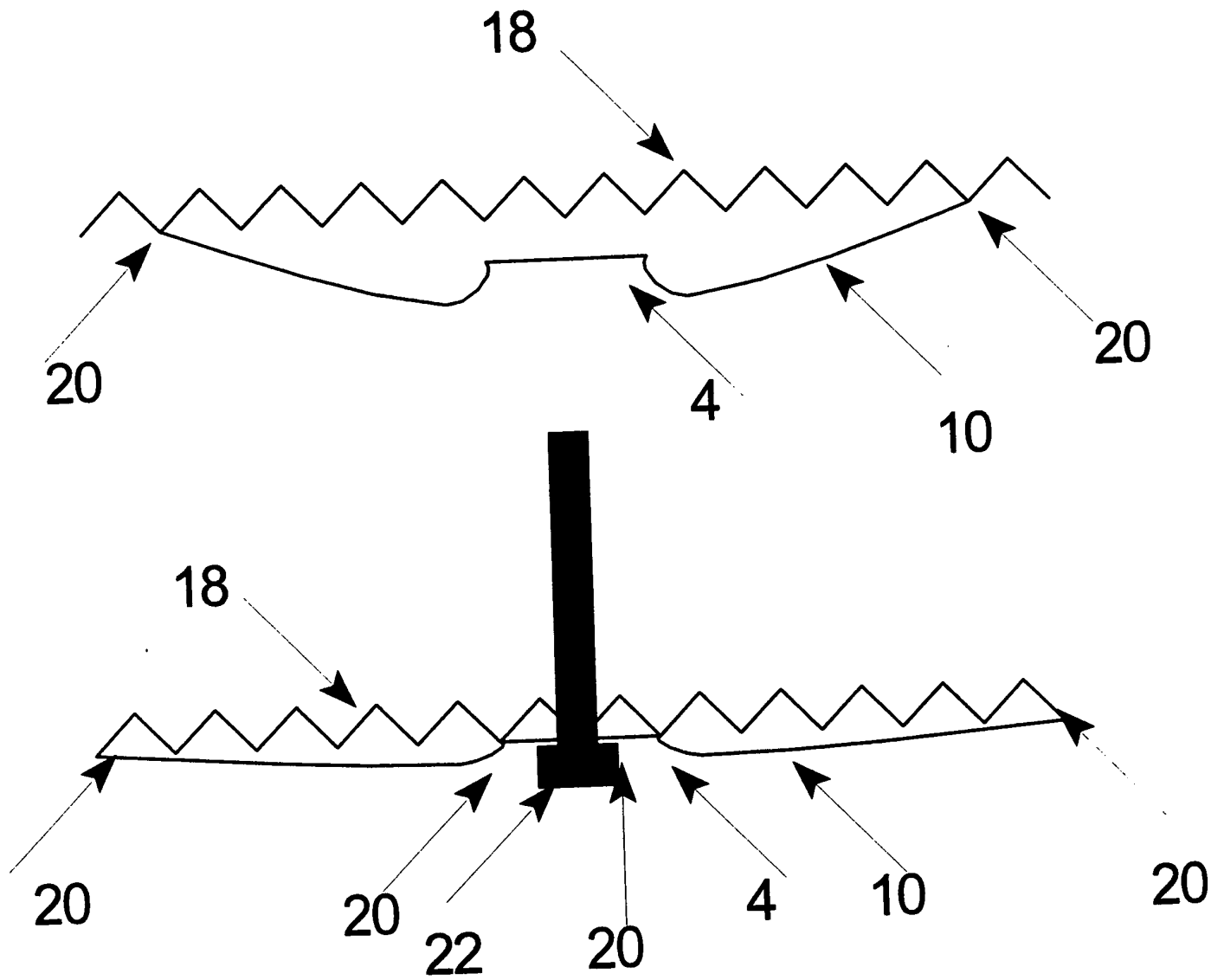


Figure 7

# Plate Comparison When Compressed

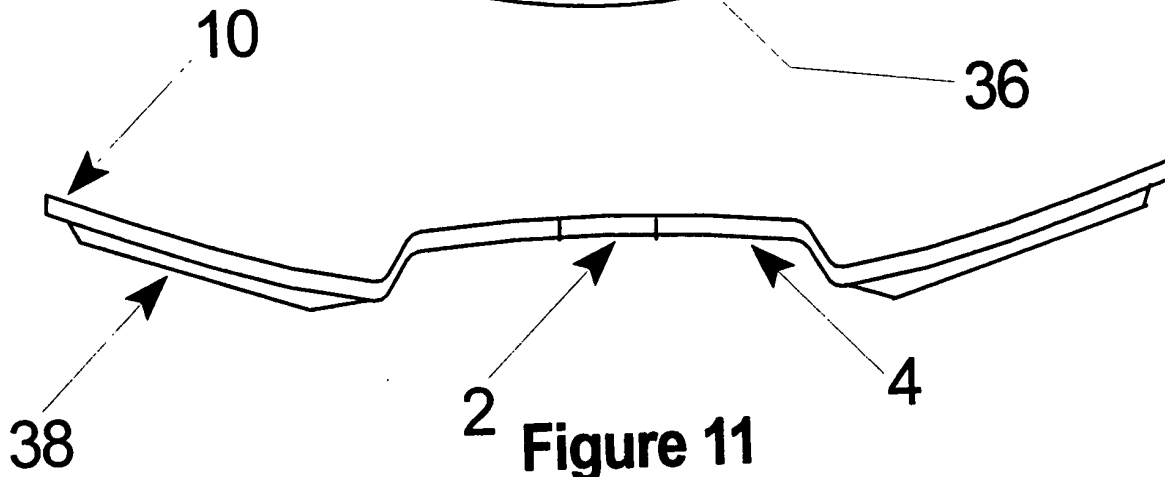
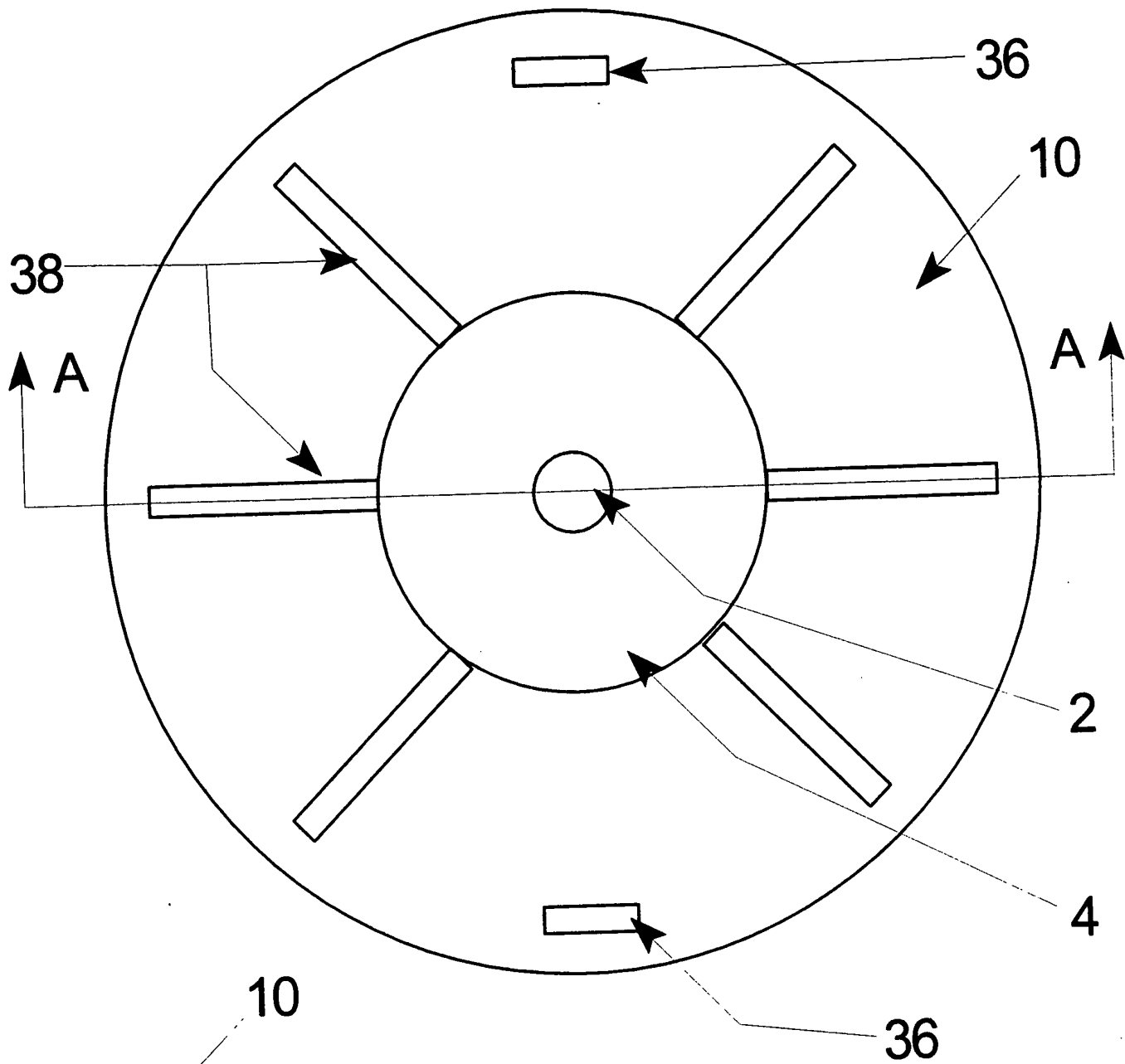
## Figure 8



**Figure 9**

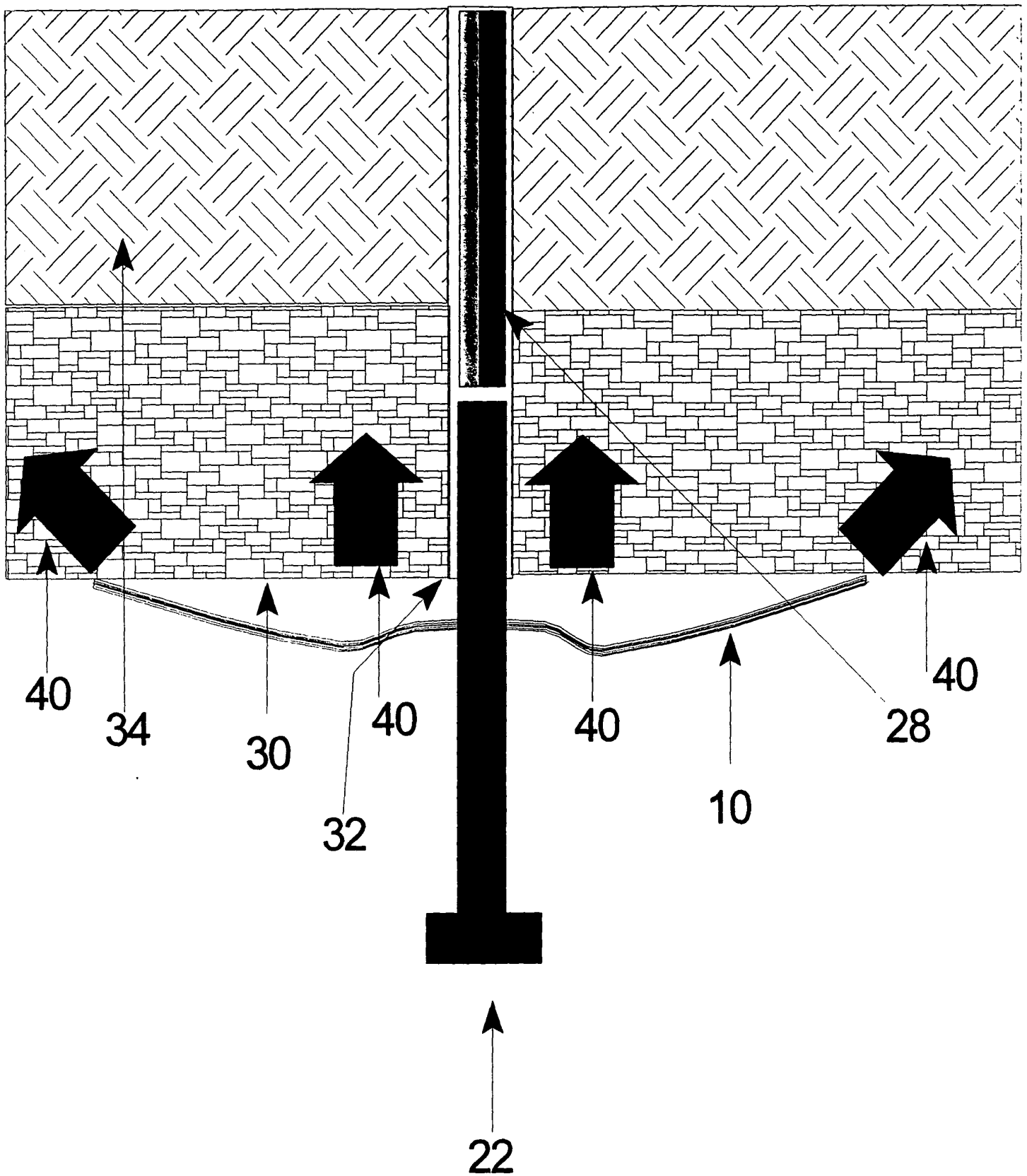
# Safety Plate

## Figure 10



**Figure 11**  
**Section A-A**  
**Strengthening Ribs**

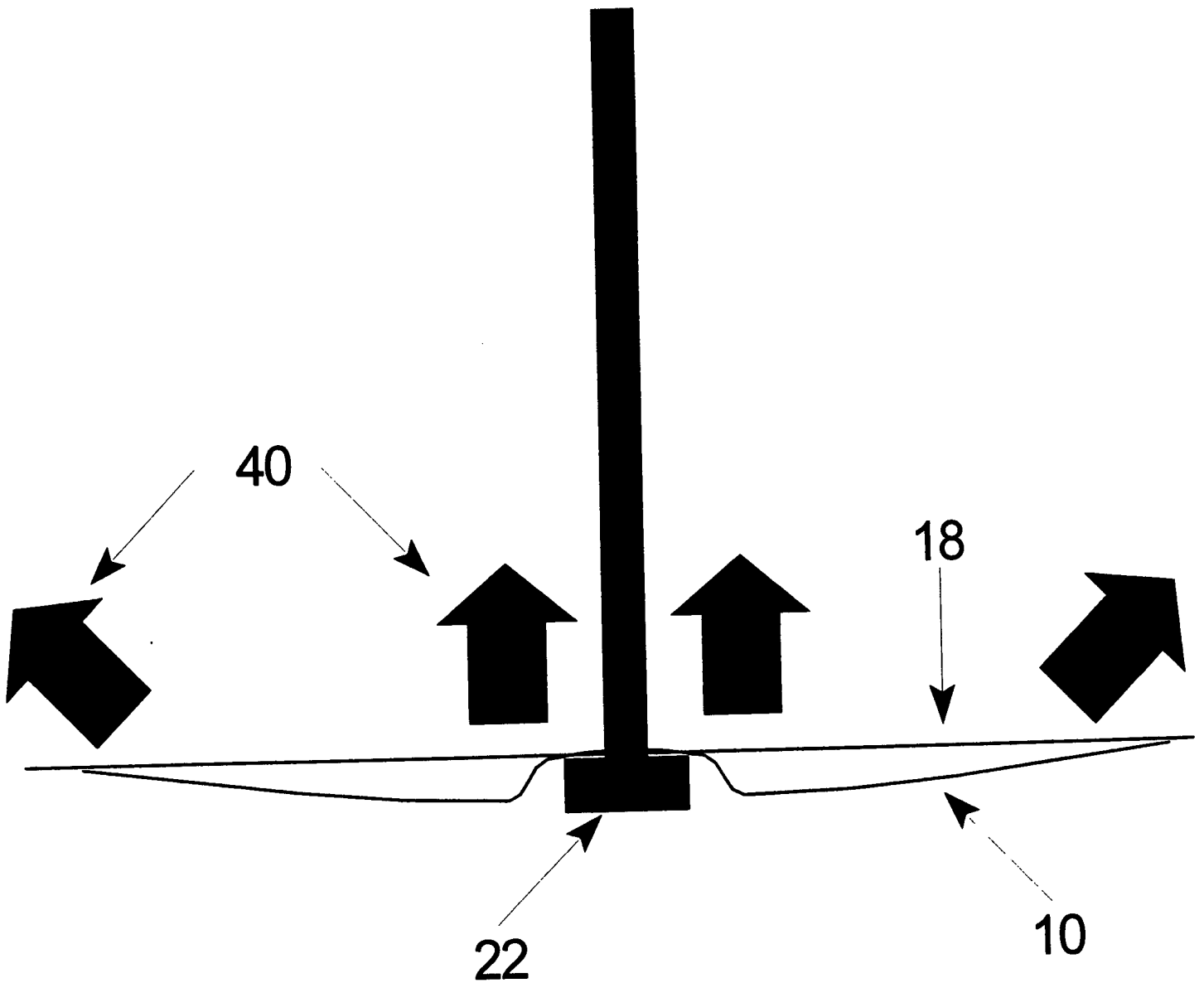
**Figure 12**



**Roof Bolting Procedure**  
Not to scale

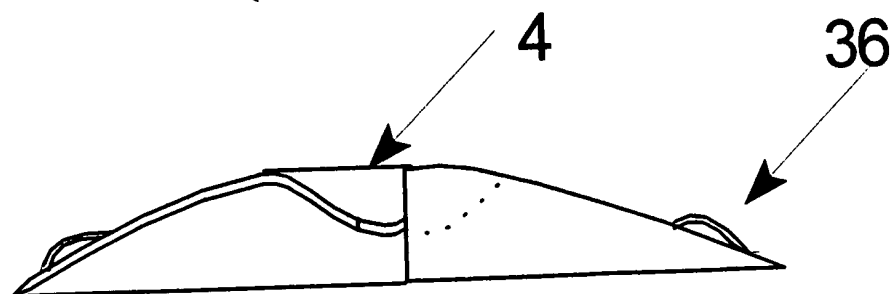
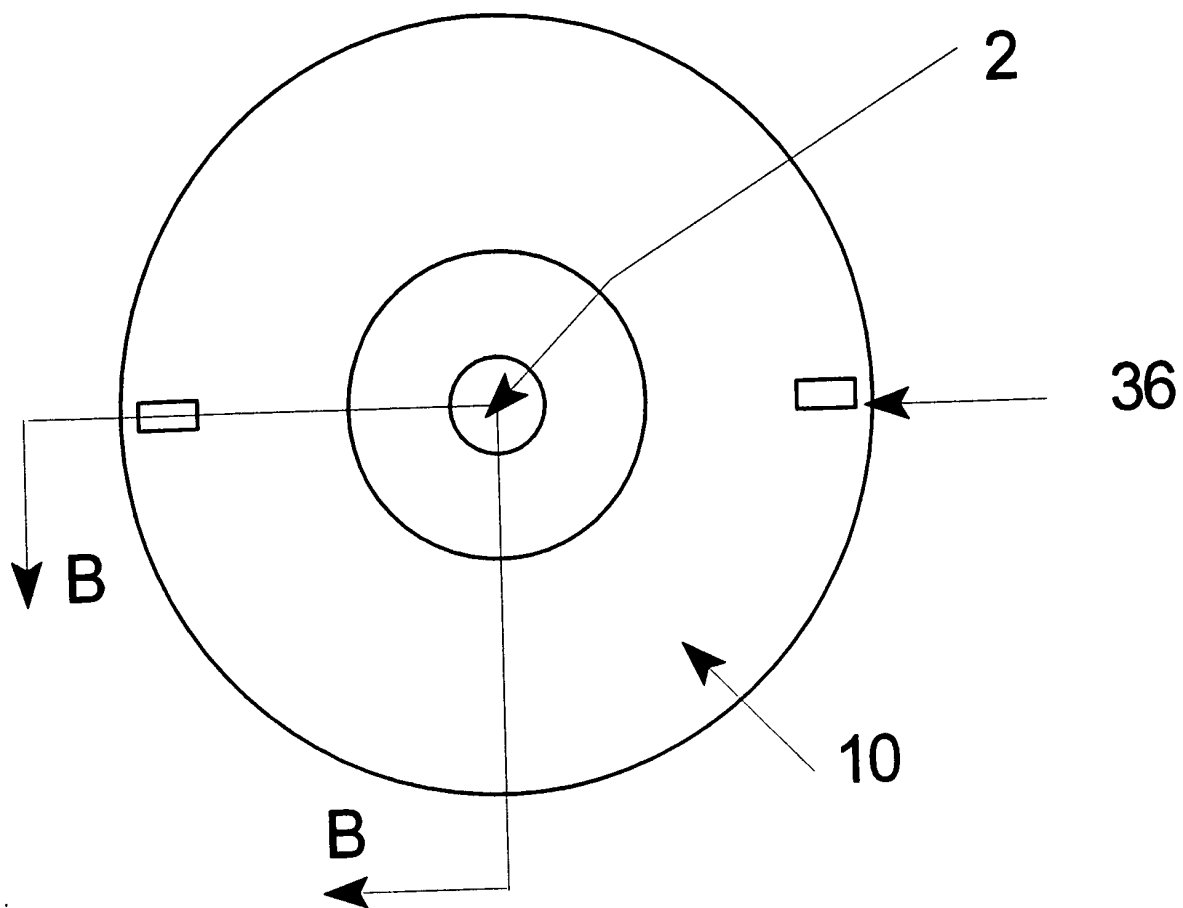
**Figure 13**

Directions of pressure on the mine roof





**Figure 14**



**Figure 15**  
**Section B-B**